

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



552 394

(43) International Publication Date  
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number  
**WO 2004/090159 A1**

(51) International Patent Classification<sup>7</sup>: C12Q 1/68, 1:46)

TEDA, Tianjin 300457 (CN). TAO, Jiang [CN/CN]; 55  
MuNan Road, HePing District, Tianjin 300050 (CN).

(21) International Application Number:

PCT/AU2004/000480

(74) Agent: FB RICE & CO; 139 Rathdowne Street, Carlton,  
Victoria 3053 (AU).

(22) International Filing Date: 13 April 2004 (13.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

2003901717

10 April 2003 (10.04.2003) AU

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(71) Applicants (for all designated States except US): WEST-  
ERN SYDNEY AREA HEALTH SERVICE [AU/AU];  
Westmead Hospital, Westmead, New South Wales 2145  
(AU). TIANJIN BIOCHIP TECHNOLOGY CORPO-  
RATION [CN/CN]; No. 23 HongDa Street, TEDA, Tian-  
jin 300457 (CN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KONG, Fanrong  
[AU/AU]; Villa 23, 93 Bridge Road, Westmead, New South  
Wales 2145 (AU). GILBERT, Gwendolyn [AU/AU]; 27  
Kooyong Road, Riverview, New South Wales 2066 (AU).  
WANG, Lei [AU/CN]; 63 FengJing Subzone, No. 80  
the 5th Street, TEDA, Tianjin 300457 (CN). LIU, Dan  
[AU/CN]; Room 402, Building 9, No. 23 HongDa Street,

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-  
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,  
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,  
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: IDENTIFICATION OF *STREPTOCOCCUS PNEUMONIAE* SEROTYPES

(57) Abstract: The present invention relates to molecular methods of serotyping *Streptococcus pneumoniae*, as well as polynucleotides useful in such methods. These methods rely on analysing at least a portion of the nucleotide sequence between the 3' end of the *cpsA* gene and the 5' end of the *cpsB* gene, and/or analysing at least a portion of the *szx* and/or *wzx* gene(s).

WO 2004/090159 A1